ESP Skeleton

Scope

This skeletion (template) aims to be a framework for ESP8266 Arduino projects.

Range of functions

- Wifi connection
- NTP time synchronization
- MQTT connection
- all configs are in the platform.io file
- uses pass as password storage and other configurations

Arduino Example Code

This code will only blink the internal blue LED of a ESP8266 (wemos d1 or similiar).

Requirements

This project use pass for storing user credentials. Take a look in bin/create_build_flags.py for further details.

The ESP_OTA_PASSWORD var is exported via bin/set_my_vars.sh

Please make sure that pass is installed & configured.

First run

To be able to use the OTA update, the following two entries in the platformio.ini must be changed.

```
; Over the air settings
upload_protocol = espota
upload_port = 192.168.1.108
```

Additionally the entry "" must be commented out:

```
; initial setup via
upload_protocol = esptool
```

How to build this project?

```
make
```

How to upload this project?

```
make upload_protocol
```

How to debug the environment vars?

```
make dump
```

How to clean up the cache?

```
make clean
```